

Slant/Fin®

CARAVAN® Modular Boiler Submittal Data

LDWO SERIES—Oil-fired/Hot Water

A Caravan modular boiler system consists of two or more compact cast-iron boilers that offer significant advantages in terms of installed cost, efficiency and reliability. Caravan systems are based on step-firing just enough modules to meet hot water or space heating demands. LDWO systems are available in 602,000 to multi-million Btuh gross input. For additional information, see Caravan Engineering Manual, pub. C-30 and Caravan oil application guide, pub. CG-10-HWO.

Standard Equipment

One per module unless otherwise noted

Pre-assembled cast-iron heat exchanger
with built-in air separators and insulated jacket
Swing-out/removable burner door
Flame retention oil burner, with nozzle;
cadmium sulfide flame detector
Hi-limit control, auto reset
Primary burner control
System pressure and temperature gauge
(unmounted)
Module pressure and temperature gauge
Module pressure relief valve (ASME)
(unmounted) Specify 30, 50 or 100 psi.
Draft regulator (unmounted)



Control header (unmounted,
one per system)
Flue brush
Module drain cock
(unmounted)

Optional Equipment

Hot water supply and return header
assemblies
Control panel with automatic lead lag

Ratings

Oil Caravan ratings/hot water models — LDWO Series

Model No.	No. of Modules	I=B=R Firing Rate #2 Oil GPH*	I=B=R Ratings (MBH)		EDR Water † (Sq. Ft.)	I=B=R Net Output‡ (MBH)	Boiler Horse-power	Water Content (gal.)	Ship Wt.	Recommended Header Size §
			Input	Gross Output						
LDWO-600-2-5	2	4.30	602	500	2900	435	14.9	31.0	1570	2"
LDWO-750-2-6	2	5.20	728	596	3453	518	17.8	35.6	1790	2"
LDWO-850-2-7	2	6.00	840	684	3967	595	20.4	45.2	2000	3"
LDWO-900-3-5	3	6.40	896	750	4347	652	22.4	46.5	2355	3"
LDWO-1100-3-6	3	7.80	1092	894	5180	777	26.7	53.4	2685	3"
LDWO-1300-3-7	3	9.00	1260	1026	5947	892	30.6	67.8	3000	3"
LDWO-1700-4-7	4	12.00	1680	1368	7933	1190	40.9	90.4	4000	3"
LDWO-2100-5-7	5	15.00	2100	1710	9913	1487	51.1	113.0	5000	3"
LDWO-2500-6-7	6	18.00	2520	2052	11893	1784	61.3	135.6	6000	3"
LDWO-2900-7-7	7	21.00	2940	2394	13880	2082	71.5	158.2	7000	4"
LDWO-3400-8-7	8	24.00	3360	2736	15860	2379	81.7	180.8	8000	4"

* Light oil, 140,000 Btuh per gallon.

† Based on 150 Btuh per square foot E.D.R. at 170°F average water temperature.

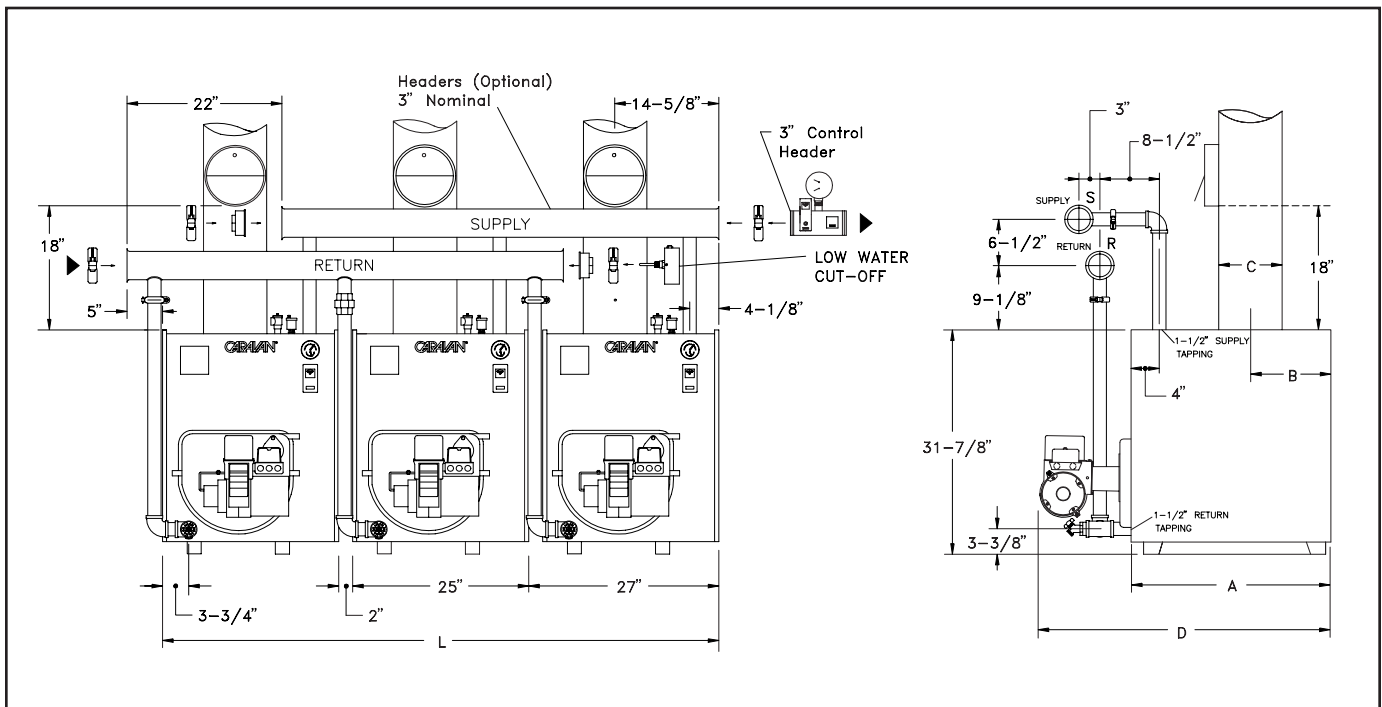
‡ Net ratings are based on a piping and pick-up allowance of 1.15. Slant/Fin should be consulted before selecting a boiler

for installation having unusual piping and pick-up requirements.

§ Modules in excess of 8 are piped in parallel to first eight.

NOTE: For higher capacities, specify any combination of standard Caravan models shown.

Dimensions



Model No.	A	B	C	D	L
LDWO-600-2-5	21 $\frac{5}{8}$ "	8 $\frac{7}{32}$ "	8"	34 $\frac{3}{8}$ "	4'4"
LDWO-750-2-6	25"	9 $\frac{29}{32}$ "	8"	37 $\frac{3}{4}$ "	4'4"
LDWO-850-2-7	28 $\frac{3}{8}$ "	11 $\frac{1}{32}$ "	9"	41 $\frac{1}{8}$ "	4'4"
LDWO-900-3-5	21 $\frac{5}{8}$ "	8 $\frac{7}{32}$ "	8"	34 $\frac{3}{8}$ "	6'7"
LDWO-1100-3-6	25"	9 $\frac{29}{32}$ "	8"	37 $\frac{3}{4}$ "	6'7"
LDWO-1300-3-7	28 $\frac{3}{8}$ "	11 $\frac{1}{32}$ "	9"	41 $\frac{1}{8}$ "	6'7"
LDWO-1700-4-7	28 $\frac{3}{8}$ "	11 $\frac{19}{32}$ "	9"	41 $\frac{1}{8}$ "	8'10"
LDWO-2100-5-7	28 $\frac{3}{8}$ "	11 $\frac{19}{32}$ "	9"	41 $\frac{1}{8}$ "	11'1"
LDWO-2500-6-7	28 $\frac{3}{8}$ "	11 $\frac{19}{32}$ "	9"	41 $\frac{1}{8}$ "	13'4"
LDWO-2900-7-7	28 $\frac{3}{8}$ "	11 $\frac{19}{32}$ "	9"	41 $\frac{1}{8}$ "	15'7"
LDWO-3400-8-7	28 $\frac{3}{8}$ "	11 $\frac{19}{32}$ "	9"	41 $\frac{1}{8}$ "	17'10"

Note: Standard boiler unit prefix is LDWO.

System Piping, Connection Diagrams



Design Data

Max. ASME Working Pressure: 100 psi
 Power Requirements: 120 V/60 HZ,
 Amp(s) per module:
 For Carlin burners 6.0
 For Wayne burners 7.7

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